FIG. 1

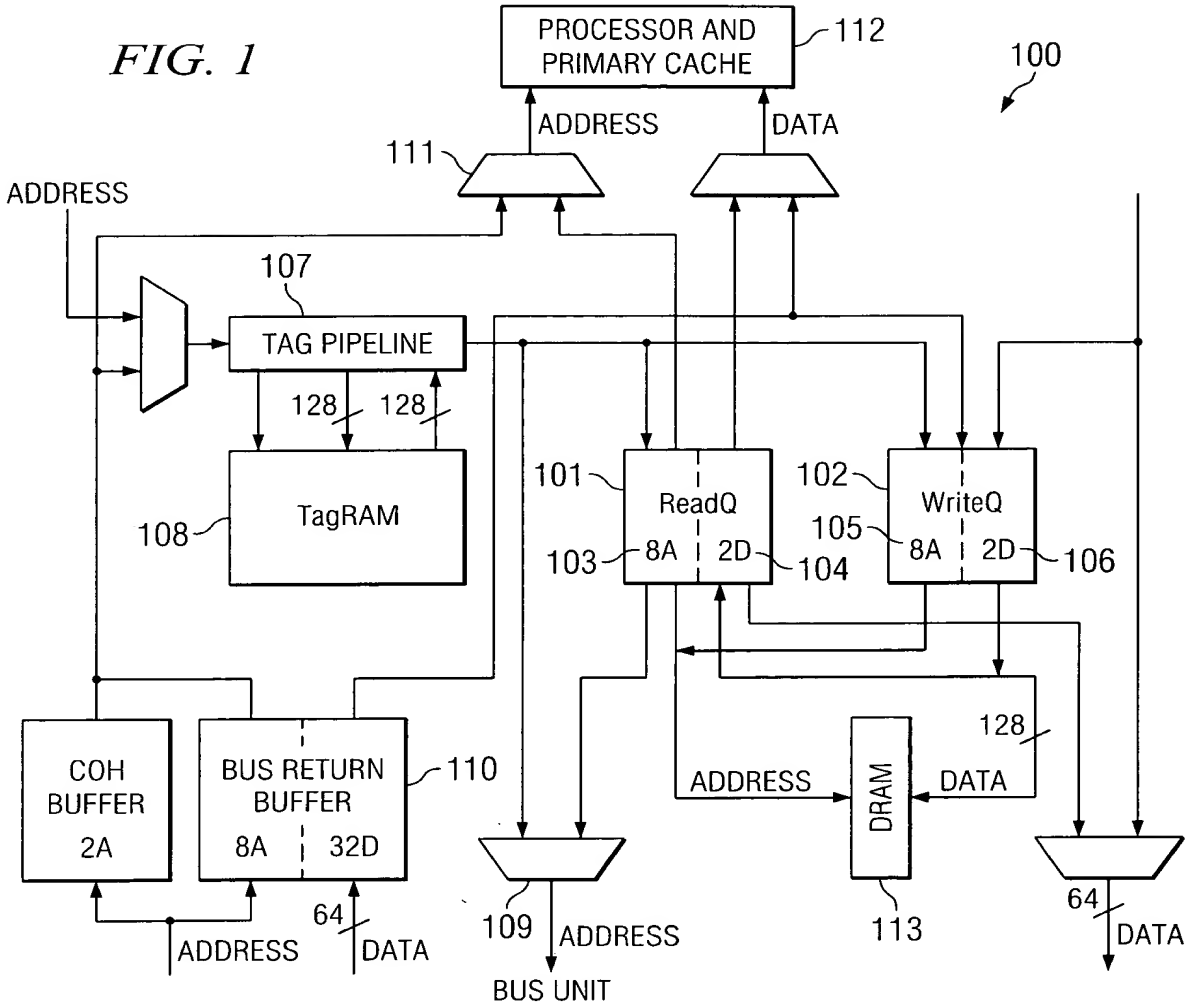

FIG. 2

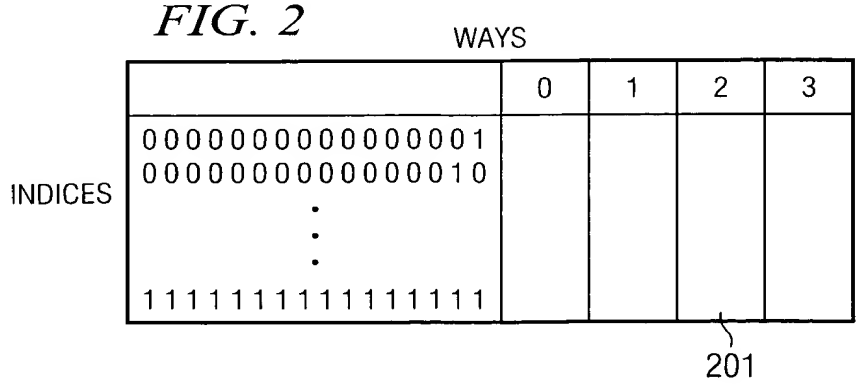

FIG. 3

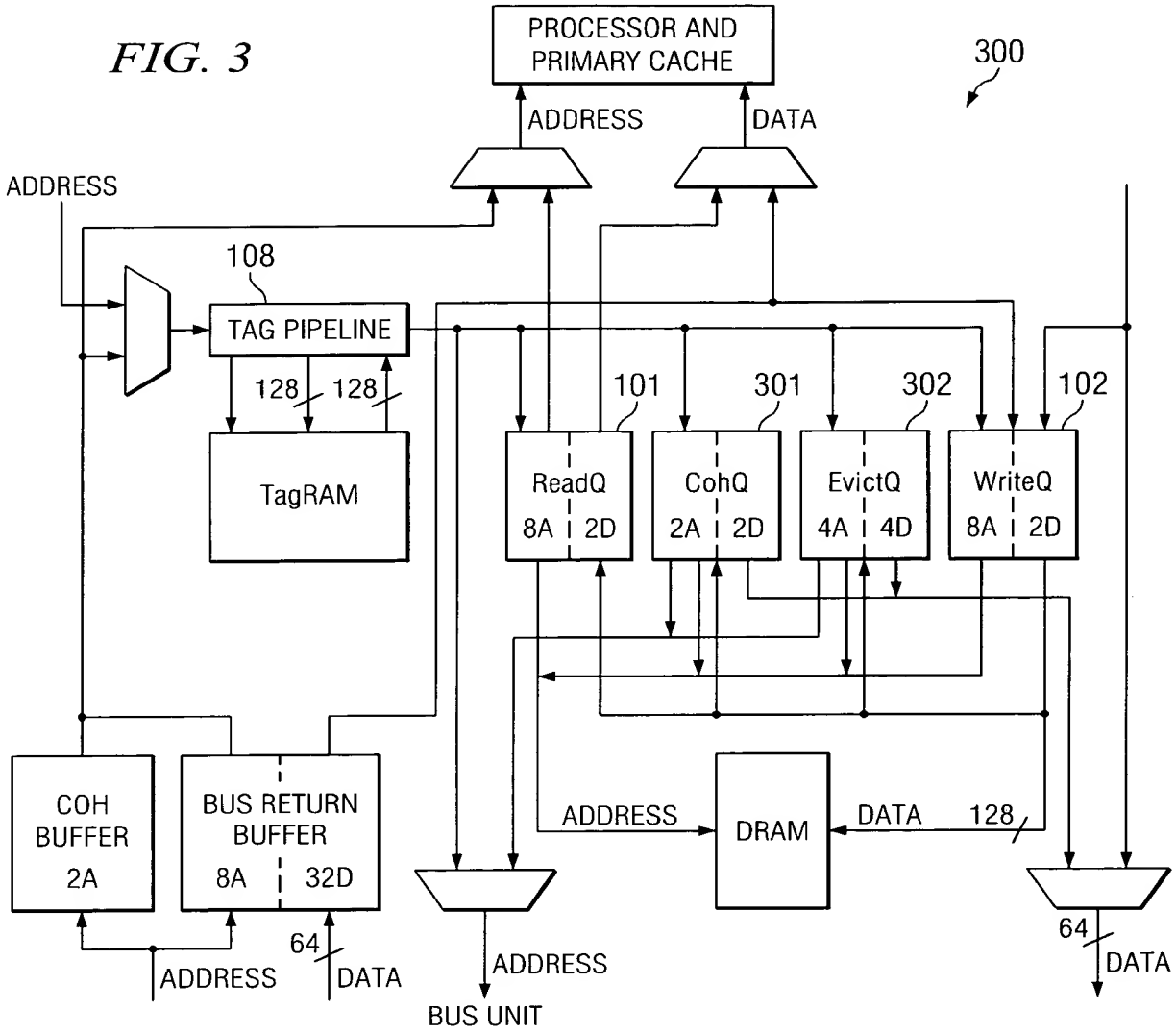

FIG. 4

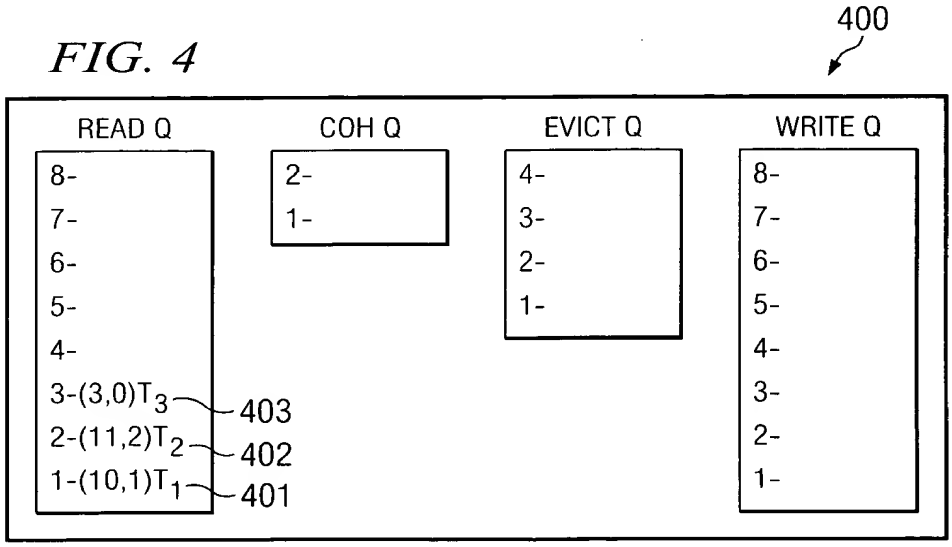

FIG. 5

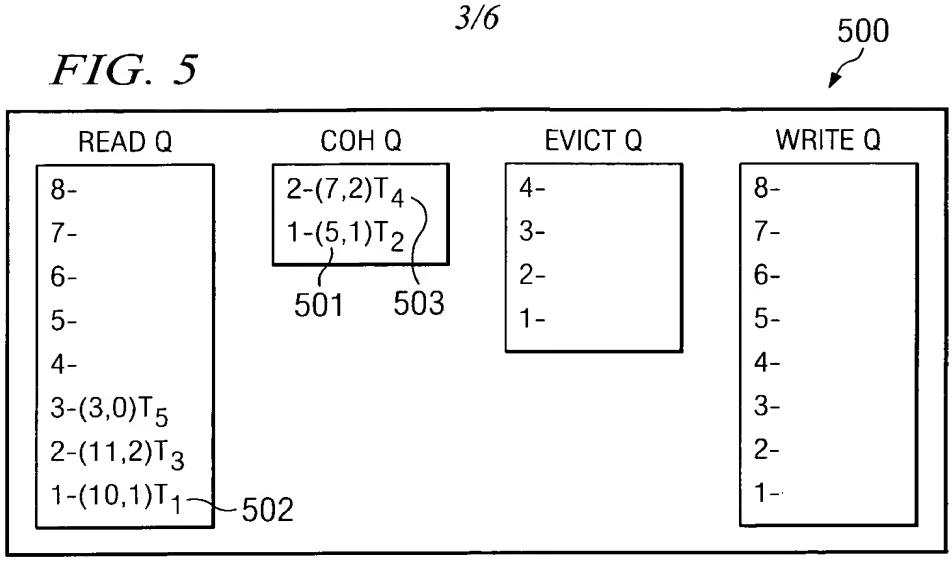

FIG. 6

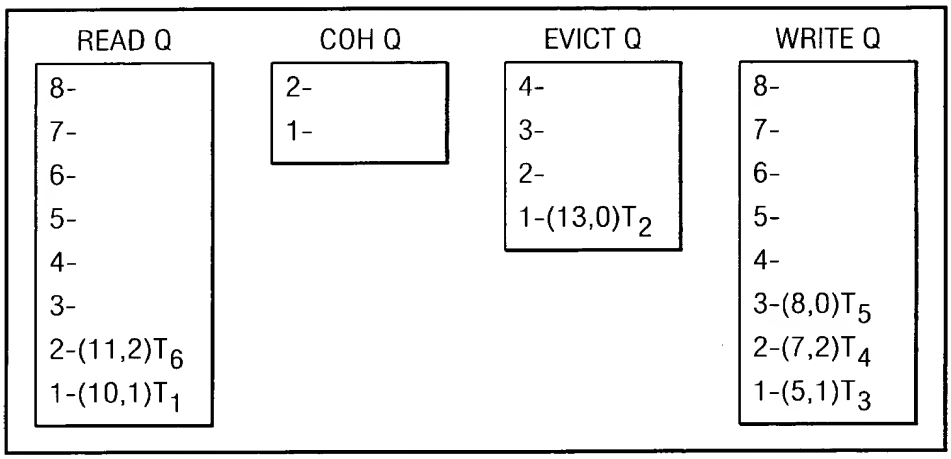

FIG. 7A

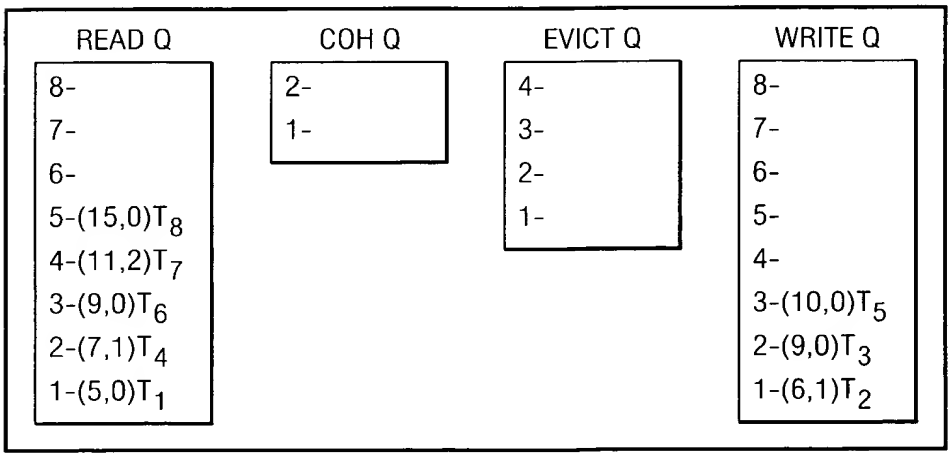

FIG. 7B

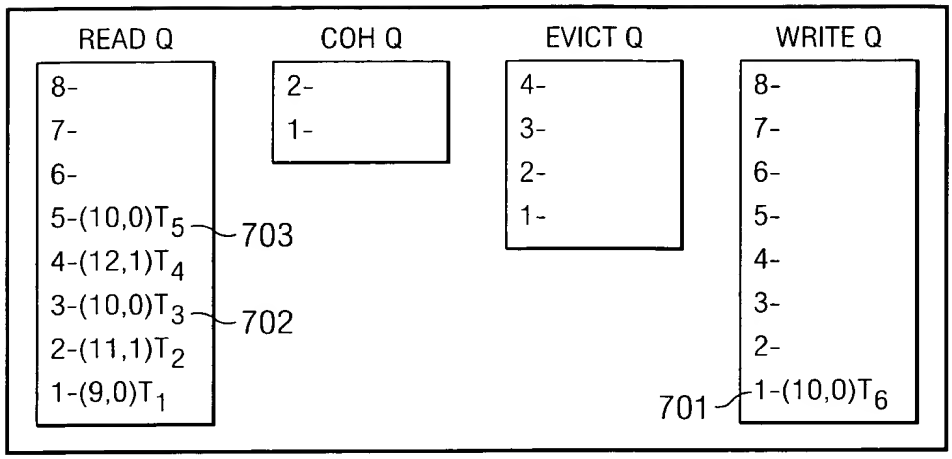

FIG. 7C

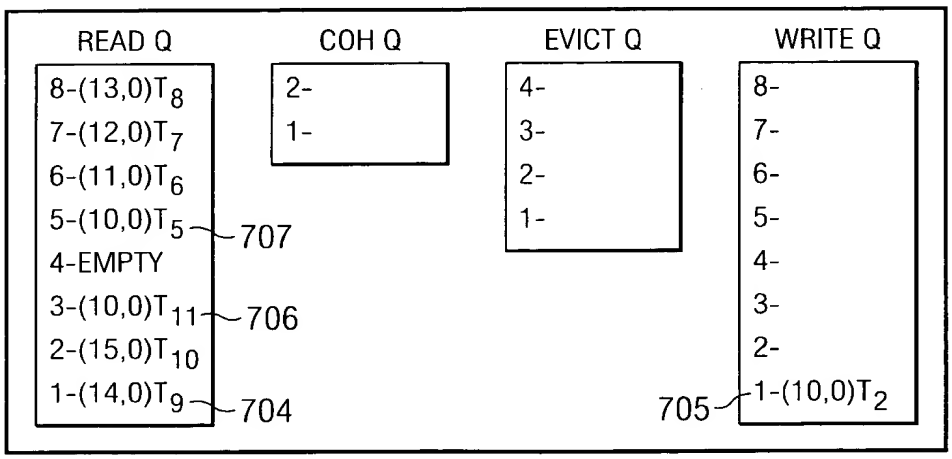

FIG. 9

		901	
900	ORIGINAL MATCH BITS	0001	0100
	COUNTER VALUE=3		
902	RIGHT SHIFTED BITS	1000	0010
903	CLEAR MASK	0111	1111
904	APPLIED MASK	1000	0000
	REVERSE SHIFT	0000	0100

FIG. 8

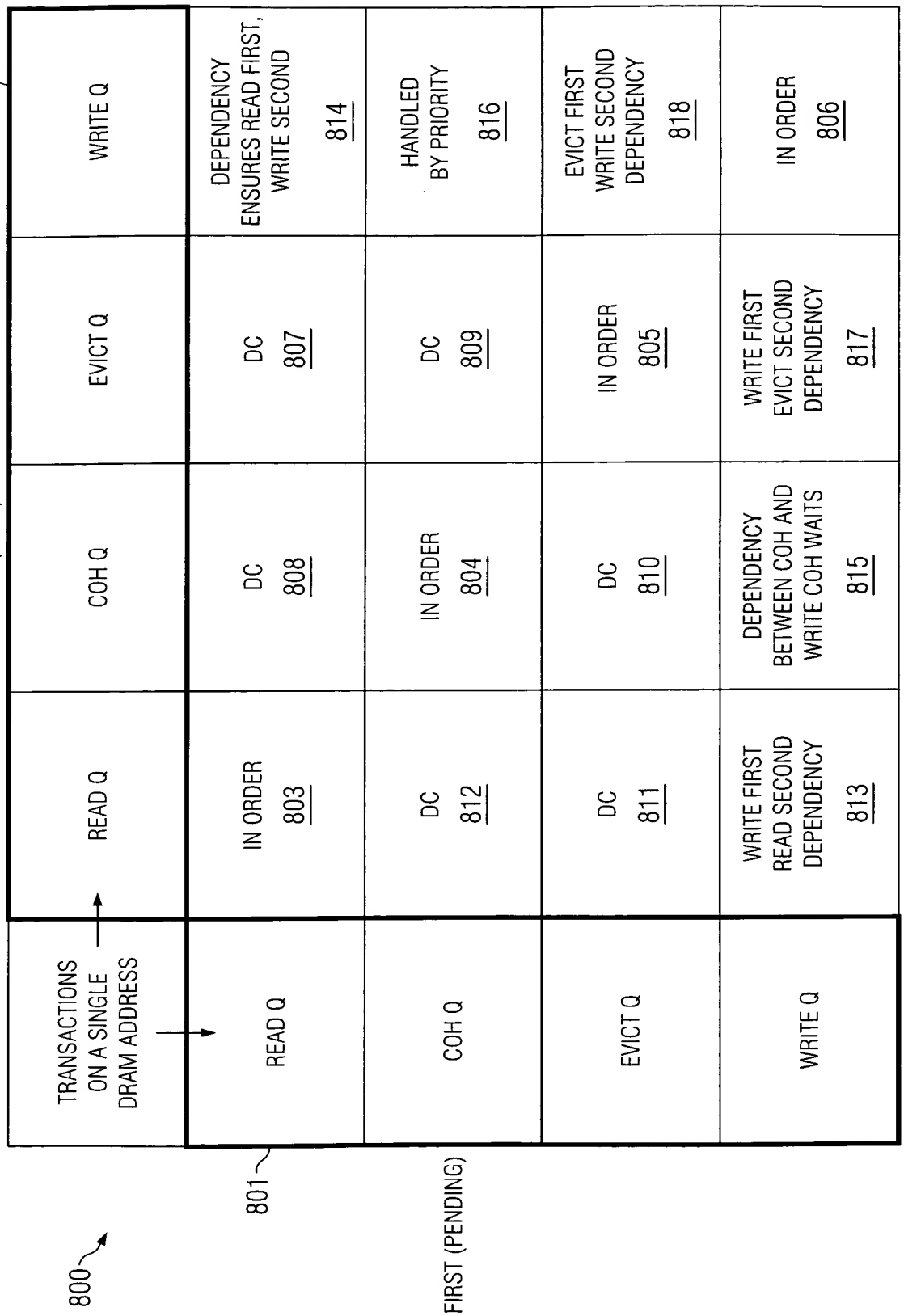

FIG. 10

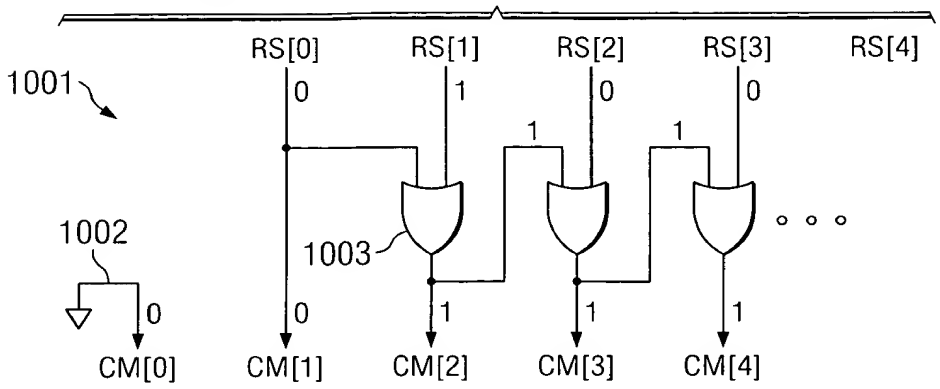

FIG. 11

900	ORIGINAL MATCH BITS	0001	0100		1100
	COUNTER VALUE=3				
1101	DUPLICATE MATCH BITS	0001	0100	0001	0100
1102	COUNTER MASK	0000	1111	1111	0000
1103	MASKED MATCH BITS	0000	0100	0001	0000
1104	CLEAR MASK	0000	0011	1111	XXXX
1105	APPLIED MASK	0000	0100	0000	0000
	ANSWER	0000	0100		

FIG. 12